

**NEVADA DIVISION OF ENVIRONMENTAL PROTECTION**  
**FACT SHEET**  
(pursuant to NAC 445A.236)

**Permittee Name:** Eureka County  
P.O. Box 714  
Eureka, NV 89316

**Permit Number:** NEV00042

**Location:** Eureka Wastewater Treatment Facility (WWTF)  
2.5 mi. N of Eureka on County Road M-101  
Latitude: 39° 33' 13"N, Longitude: 115° 57' 59"W  
Township 20N, Range 53E, SE¼ NE¼ Section 35

**General:** The Eureka WWTF is located approximately 2.5 miles north of Eureka, Eureka County, NV. All wastewater influent flow from Eureka is received via gravity flow in an 8 in. PVC sewer line. The WWTF was expanded in 1996 to provide a treatment capacity of 0.1 MGD (100,000 gpd). The serviced population is approximately 450 residents.

The facility's headworks consist of a battery-powered (solar-cell recharged) ultrasonic flow meter and a transfer manhole for splitting flow between two facultative treatment ponds when the influent flow exceeds 60,000 gpd. In practice, this flow value has not been reached, and treatment in ponds #1-2 occurs in series. Pond #1 provides primary facultative stabilization, and pond #2 provides secondary facultative polishing. Ponds #1-2 are lined with a bentonite/soil mix and provide operating surface areas of 2.8 and 3.0 acres, respectively. At design capacity, the operating depth in each pond is 5¼ ft. The WWTF also receives septage. Septage is unloaded into pond #1. The WWTF is designed for a maximum loading of 1,500 gallons of septage or 120 gallons of chemical toilet waste (formaldehyde-free chemicals) per week. In practice, the septage unloading station is only used sparingly in an effort to maintain odor-free conditions.

Treated effluent from ponds #1-2 is disposed of in evaporation/percolation ponds #5-6. Ponds #5-6 provide a combined percolation surface of 5¼ acres. During the current permit's five-year term, ponds #5-6 have been dry and have not percolated any effluent. Due to the town's low flows, ponds #1-2 have not discharged effluent to ponds #5-6.

**Flow:** The Eureka WWTF is permitted at its treatment capacity of 0.1 MGD. Currently, the 30-day average flow is 0.03 MGD. This corresponds to an influent generation rate of 65 gpd per resident.

**Receiving Water Characteristics:** Disposal ponds #5-6 are designed to percolate treated effluent to groundwater. On February 22, 1999, the Division approved the facility's request for a waiver of groundwater monitoring. The waiver was granted on the basis that the estimated depth to groundwater at the WWTF is 200 ft. Groundwater flow direction is to the north. There are no well logs recorded in Section 35 in which this facility is sited.

**Proposed Effluent Limitations and Special Conditions:**

**Table 1: Plant Discharge Limitations**

PARAMETER	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	30-Day Average	Daily Maximum	Measurement Frequency	Sample Type
Flow, MGD	0.1		Continuous	Flowmeter
CBOD, mg/L (Influent)	Monitor & Report		Quarterly	Discrete
CBOD, mg/L (Effluent)	30	45	Quarterly	Discrete
TSS, mg/L (Influent)	Monitor & Report		Quarterly	Discrete
TSS, mg/L (Effluent)	90		Quarterly	Discrete
pH, Std. Units (Effluent)	Between 6.0 & 9.0		Quarterly	Discrete

**Rationale for Permit Requirements:** Presently, the facility reports BOD<sub>5</sub>, 5-day Biochemical Oxygen Demand. For this renewal, the Division requires Carbonaceous Biochemical Oxygen Demand (CBOD or Inhibited BOD) to be reported instead of BOD<sub>5</sub>. CBOD is preferable for pond treatment systems since ammonia may not be completely nitrified in facultative ponds.

**Schedule of Compliance:** There are no compliance requirements scheduled for submission to the Division at this time for the Eureka WWTF.

**Procedures for Public Comment:** The Notice of the Division's intent to issue a permit authorizing the operation of this wastewater treatment plant, subject to the conditions contained within the permit is being sent to the **Eureka Sentinel** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of thirty (30) days following the date of publication of the public notice in the newspaper. The comment period can be extended at the discretion of the Administrator. The deadline date and time by which all comments are to be submitted (via postmarked mail or time-stamped faxes, e-mails, or hand-delivered items) to the Division is **July 7, 2003 by 5:00 P.M.**

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator or any interested agency, person or group of persons.

The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted.

Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determines to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

**Proposed Determination:** The Division has made the tentative determination to issue (renew) the proposed discharge permit for a period of five (5) years.

Prepared by: Mark A. Kaminski, P.E.  
Staff Engineer III  
Bureau of Water Pollution Control

Date: June 2, 2003

Saved to: Eureka\_factsheet